

DATE: October 30, 2006
API # 047 - 015 - 02549F

Well Operator's Report of Well Work

Company:	Range Resources-Pine Mtn., Inc		
Address:	P.O. Box 2136		
	Abingdon, Virginia 24212		
Agent:	Geary Legg		
Inspector:	Terry Urban		
Date Permit Issued:	9/6/05		
Date Well Work Commenced:	5/2/06		
Date Well Work Completed:	5/08/06		
Verbal Plugging:			
Date Permission granted on:			
Rotary <u> X </u> Cable <u> </u> Rig <u> </u>			
Total Depth (feet):	2369		
Fresh Water Depth (ft.):	40, 135		
Salt Water Depth (ft.):	713, 1216		
Is coal being mined in area (N/Y)?	N		
Coal Depths (ft.):	75, 153, 243		

Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
11 ¾	14		
8 ½	532	532	CTS
4 ½	2279	2279	310 sx
2 ¾		2188	
RECEIVED			
Office of Oil & Gas			
AUG 22 2013			
WV Department of Environmental Protection			

Producing Formation:	<u>Big Lime</u>	Pay zone depth	<u>2076-2185</u>	(ft)	
Gas:	Initial open flow:	<u> </u> MCF/d	Oil:	Initial open flow:	<u> </u> Bbl/d
	Final open flow:	<u> 146 </u> MCF/d		Final open flow:	<u> </u> Bbl/d
	Time of open flow between initial and final tests	<u> 8 </u>	Hours		
Static Rock Pressure	<u> 140 </u>	Psig (surface pressure) after	<u> 24 </u>	Hours	
Second Producing Formation:	<u> </u>	Pay zone depth	<u> </u>	(ft)	
Gas:	Initial open flow:	<u> </u> MCF/d	Oil:	Initial open flow:	<u> </u> Bbl/d
	Final open flow:	<u> </u> MCF/d		Final open flow:	<u> </u> Bbl/d
	Time of open flow between initial and final tests	<u> </u>	Hours		
Static Rock Pressure	<u> </u>	Psig (surface pressure) after	<u> </u>	Hours	

NOTE: ON THE BACK OF THIS FORM PUT THE FOLLOWING: 1) DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2) THE WELL LOG, WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

Signed: Range Resources
By: [Signature]
Date: 8/22/13

Well Log

15-02549F

Formation	Top Feet*	Bottom Feet*
Sand and Shale	0	1460
Upper Maxon	1460	1512
Shale	1512	1673
Middle Maxon	1673	1734
Shale	1734	1834
Lower Maxon	1834	1871
Shale	1871	1924
Little Lime	1924	1963
Shale	1963	1972
Blue Monday	1972	2010
Pencil Cave	2010	2024
Big Lime	2024	2229
Shale	2229	2369

RECEIVED
Office of Oil & Gas

AUG 22 2013

WV Department of
Environmental Protection

Well PMOG 5
Permit 47-015-02549F

15-02549F

	Stage 1	Stage 2
Date	5/4/2006	5/4/2006
Frac Formation(s)	75Q N2 Foam Big Lime	75Q N2 Foam Big Lime
Interval	2177-2185	2076-2093
# of Perf	18	9
BD Press	2275 psi	2687 psi
Avg Treating Press	2807 psi	4021 psi
Max Treating Press	3108 psi	4106 psi
Avg Rate (dh)	19.5 bpm	11.6 bpm
ISIP	531 psi	2115 psi
5 min SIP	426 psi	1918 psi
Total Acid	500 gal	500 gal
Total N2	157800 scf	341200 scf
Total H2O	138 bbl	195 bbl
Total Sand	394 sk	259 sk

RECEIVED
Office of Oil & Gas

AUG 22 2013

WV Department of
Environmental Protection

DATE: December 10, 2010
API # 047 - 015 - 2588R

Well Operator's Report of Well Work

Longitude: 1725 Feet West of 80 Deg. 55 Min. 0 Sec.

Coal Depths (ft.): _____

[illegible]

Static Rock Pressure	Psig (surface pressure) after	Hours
----------------------	-------------------------------	-------

Date: 8/22/13

15-02588R

Completion Data**Well Log**

Formation	Top (ft)*	Bottom (ft)*
Sand and Shale	0	1269
Salt Sand	1269	1314
Shale	1314	1382
Salt Sand	1382	1422
Shale	1422	1506
Upper Maxon	1506	1547
Shale	1547	1694
Middle Maxon	1694	1748
Sand and Shale	1748	1932
Little Lime	1932	1976
Shale	1976	1982
Blue Monday	1982	2010
Shale	2010	2028
Big Lime	2028	2229
Shale	2229	2307
TD	2307	

* Depths 10 ft KB

Well PMOG 14
Permit 47-015-02588R

Stage 1

Date 1/11/2008
Frac 75Q N2 Foam Acid
Formation(s) Big Lime

Interval 2225-2079kb
of Perf Open Hole

BD Press 700 psi

Avg Treating
Press 991 psi

Max Treating
Press 1398 psi
Avg Rate (dh) 7 bpm
ISIP psi
5 min SIP psi

Total Acid 2000/15%HCl gal
Total N2 14,000 scf
Total H2O bbl
Total Sand sx

Note: Drill out 4½ casing shoe, complete Big Lime open hole
Note: Unable to release 4½ x 2¾ packer (sanded in at 2040 ft)

15-02588R

WR-35
Rev (9-11)

State of West Virginia
Department of Environmental Protection
Office of Oil and Gas
Well Operator's Report of Well Work

DATE: August 7, 2013
API #: 47-5101571

Farm name: Consolidation Coal Company Operator Well No.: MND9DHS

LOCATION: Elevation: 1226.69 Quadrangle: Powhatan Point

District: Franklin County: Marshall
Latitude: 879 Feet South of 39 Deg. 50 Min. 00 Sec.
Longitude 10479 Feet West of 80 Deg. 45 Min. 00 Sec.

Company: Noble Energy, Inc.

Address: <u>333 Technology Drive, Suite 116</u>	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
<u>Canonsburg, PA 15317</u>				
Agent: <u>Steven Green</u>	<u>20"</u>	<u>40'</u>	<u>40'</u>	<u>cts</u>
Inspector: <u>Bill Hendershot</u>	<u>13 3/8</u>	<u>1208.1</u>	<u>1208.1</u>	<u>cts</u>
Date Permit Issued: <u>10/31/2012</u>				
Date Well Work Commenced: <u>6/28/2013</u>				
Date Well Work Completed: <u>7/4/2013</u>				
Verbal Plugging:				
Date Permission granted on: <u>7/25/2013</u>				
Rotary <input type="checkbox"/> Cable <input type="checkbox"/> Rig <input type="checkbox"/>				
Total Vertical Depth (ft): <u>1228</u>				
Total Measured Depth (ft): <u>1228</u>				
Fresh Water Depth (ft.):				
Salt Water Depth (ft.):				
Is coal being mined in area (N/Y)?				
Coal Depths (ft.):				
Void(s) encountered (N/Y) Depth(s)				

RECEIVED
Office of Oil & Gas
AUG 28 2013

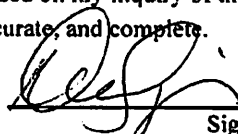
WV Department of
Environmental Protection

OPEN FLOW DATA (If more than two producing formations please include additional data on separate sheet)

Producing formation _____ Pay zone depth (ft) _____
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow _____ MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ Hours
Static rock Pressure _____ psig (surface pressure) after _____ Hours

Second producing formation _____ Pay zone depth (ft) _____
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow _____ MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ Hours
Static rock Pressure _____ psig (surface pressure) after _____ Hours

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information I believe that the information is true, accurate, and complete.


Signature

8/27/13
Date

51-01571

Were core samples taken? Yes _____ No _____

Were cuttings caught during drilling? Yes _____ No _____

Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list _____

NOTE: IN THE AREA BELOW PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL DEPTH.

Perforated Intervals, Fracturing, or Stimulating:

NA -Plug Well Bore

Plug Back Details Including Plug Type and Depth(s): Set Plug #1- 539' Balanced Cement Plug @1079'-540'. (91.7 Bbls)

TOOH to 500' at 30'/min then circulate while waiting on cement. ** See below for Continuation

Formations Encountered:	Top Depth	/	Bottom Depth
Surface:			

****Plug Back Details Continued:**

Set Plug #2 (91.8 bbls) Balanced Cement Plug to ground level Plug set from (540'-GL).

TOOH @ 30'/min. Top off as needed Circulate tubing clean in cellar. Pump cellar out after cleaning.

Cut depth for casing cap 3-4 feet below ground level and install abandonment cap. Cement Cellar to be even with ground level.

RECEIVED
Office of Oil & Gas

AUG 28 2013

WV Department of
Environmental Protection

DATE: May 22, 2006
API #: 47-99-02185

State of West Virginia
Department of Environmental Protection
Office of Oil and Gas

Well Operator's Report of Well Work

Farm name: WILLIS ADKINS Operator Well No.: 1
LOCATION: Elevation: 638.5 Quadrangle: WINSLOW 7.5
District: STONEWALL County: WAYNE
Latitude: _____ Feet South of _____ Deg. _____ Min. _____ Sec.
Longitude: _____ Feet West of _____ Deg. _____ Min. _____ Sec.

Company: MYERS DRILLING CO.

	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Address: <u>P.O. Box 320</u>	<u>10 3/4"</u>	<u>27'</u>	<u>27'</u>	<u>To Surface</u>
<u>EAST KINN WV 25512</u>	<u>8 3/4"</u>	<u>452.5'</u>	<u>452.5'</u>	<u>CEMENT TO SURFACE</u>
Agent: <u>Michael Davis</u>	<u>7"</u>	<u>1500'</u>	<u>1500'</u>	<u>CEMENT UP TO 1500'</u>
Inspector: <u>GARY SCITES</u>	<u>4 1/2"</u>	<u>3041.10'</u>	<u>3041.10'</u>	<u>CEMENT UP TO 2100'</u>
Date Permit Issued: <u>9-12-05</u>	<u>2 3/4"</u>	<u>3046'</u>	<u>3046'</u>	<u>HANG IN WELL</u>
Date Well Work Commenced: <u>10-6-05</u>				<u>NO PAPER USED</u>
Date Well Work Completed: <u>3-22-06</u>				
Verbal Plugging:				
Date Permission granted on:				
Rotary Cable <input checked="" type="checkbox"/> Rig <input checked="" type="checkbox"/>				
Total Depth (feet): <u>3080'</u>				
Fresh Water Depth (ft.): <u>30'</u>				
Salt Water Depth (ft.): <u>800'</u>				
Is coal being mined in area (N/Y)? <u>(N)</u>				
Coal Depths (ft.): <u>No/No</u>				

RECEIVED
Office of Oil & Gas

AUG 22 2013

WV Department of
Environmental Protection

OPEN FLOW DATA

Producing formation DEVONIAN SHALE Pay zone depth (ft) 2825' - 3010'
Gas: Initial open flow 510W MCF/d Oil: Initial open flow NONE Bbl/d
Final open flow 120 MCF/d Final open flow NONE Bbl/d
Time of open flow between initial and final tests 40 Hours
Static rock Pressure 225 psig (surface pressure) after 24 Hours

Second producing formation _____ Pay zone depth (ft) _____
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow 120 MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ Hours
Static rock Pressure _____ psig (surface pressure) after _____ Hours

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

Signed: Michael Davis
By: Michael Davis - Partner
Date: May 24, 2006

PERFORATED 27 HOLES - 2625' - 2491'
NITROGEN FRAC USE 1,500.000 CU FT GAS

FORMATION	COLOR	HARD	OR	SOFT	TOP FEET	BOTTOM FEET	REMARKS
							Including indication of all fresh and salt water, coal, oil and gas
SURFACE	BROWN			X	0	12	
Broken SAND	GRAY			X	12	30	← FRESH WATER
SLATE	GRAY			X	30	125	
SAND + SLATE	GRAY			X	125	780	← Run 452' 8 3/8" CASING
SALT SAND	WHITE			X	780	1075	← SALT WATER 825'
SLATE	BLACK			X	1075	1180	
LITTLE LIME	BLACK	X			1180	1200	
BIG LIME	WHITE	X			1200	1375	
SLATE	GRAY			X	1375	1404	
INTUN SAND	GRAY			X	1404	1480	
SLATE + SHALLS	GRAY			X	1480	2000	← CEMENT 1500' of 7" casing
BEFFER SHALE	DARK B			X	2000	2020	
BISRA SAND	GRAY	X			2020	2031	
SLATE + SHALLS	GRAY			X	2031	2085	
B SHALE	BROWN	X			2085	2157	
SLATE	GRAY			X	2157	2560	
SHALE	BROWN			X	2560	2625	← CEMENT 3061' - 4 1/2" PRODUCTION
SLATE	GRAY			X	2625	2720	
SHALE	BROWN			X	2720	3048	← HANG 3046' of 2 3/8" TUBING
SLATE	GRAY				3048	3080	← STOP DRILLING - 3080'

Signed: *Mike Wai*

WR-35
Rev (9-11)

State of West Virginia
Department of Environmental Protection
Office of Oil and Gas
Well Operator's Report of Well Work

DATE: October 24, 2006
API #: 103-02182

Farm name: Coastal Lumber

Operator Well No.: Broome 2

RECEIVED
Office of Oil and Gas

LOCATION: Elevation: 1128'

Quadrangle: Folsom

AUG 22 2013

District: Grant

County: Wetzel

Latitude: _____ Feet South of _____ Deg. _____ Min. _____ Sec.

Longitude _____ Feet West of _____ Deg. _____ Min. _____ Sec.

Company: Marshall Gas and Oil

**WV Department of
Environmental Protection**

Address: <u>PO Box 381087</u>	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
<u>Birmingham, AL 35238</u>	<u>85/8</u>	<u>1128'</u>	<u>1128'</u>	<u>CTS</u>
Agent: <u>Scott Wilson</u>	<u>41/2</u>	<u>3200'</u>	<u>3175'</u>	
Inspector: <u>Mike Underwood</u>				
Date Permit Issued: <u>6/19/2006</u>				
Date Well Work Commenced: <u>7/15/2006</u>				
Date Well Work Completed: <u>8/6/2006</u>				
Verbal Plugging:				
Date Permission granted on:				
Rotary <input type="checkbox"/> Cable <input type="checkbox"/> Rig <input type="checkbox"/>				
Total Vertical Depth (ft): <u>3200'</u>				
Total Measured Depth (ft): <u>3175'</u>				
Fresh Water Depth (ft.): <u>50'</u>				
Salt Water Depth (ft.): <u>1300'</u>				
Is coal being mined in area (N/Y)? <u>N</u>				
Coal Depths (ft.): <u>n/a</u>				
Void(s) encountered (N/Y) Depth(s) <u>n/a</u>				

OPEN FLOW DATA (If more than two producing formations please include additional data on separate sheet)

Producing formation Fifth & Gordon Pay zone depth (ft) 2915-2975

Gas: Initial open flow 200 MCF/d Oil: Initial open flow _____ Bbl/d

Final open flow _____ MCF/d Final open flow _____ Bbl/d

Time of open flow between initial and final tests _____ Hours

Static rock Pressure 400 psig (surface pressure) after 24 Hours

Second producing formation Big Injun / 30 ft Pay zone depth (ft) 2196-2854

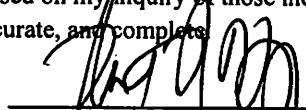
Gas: Initial open flow 200 MCF/d Oil: Initial open flow _____ Bbl/d

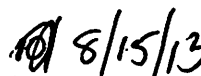
Final open flow _____ MCF/d Final open flow _____ Bbl/d

Time of open flow between initial and final tests _____ Hours

Static rock Pressure 400 psig (surface pressure) after 24 Hours

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information I believe that the information is true, accurate, and complete.


Signature


Date

Were core samples taken? Yes _____ No ^X _____

Were cuttings caught during drilling? Yes _____ No ^X _____

Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list _____

NOTE: IN THE AREA BELOW PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL DEPTH.

Perforated Intervals, Fracturing, or Stimulating:

RECEIVED
Office of Oil and Gas

Fifth & Gordon: Perfs: 13 holes 2924.00 to 2968.50

Injun & 30 ft: Perfs: 14 holes 2200 to 2900

AUG 22 2013

WV Department of
Environmental Protection

Plug Back Details Including Plug Type and Depth(s): n/a

<u>Formations Encountered:</u>	<u>Top Depth</u>	<u>/</u>	<u>Bottom Depth</u>
--------------------------------	------------------	----------	---------------------

Fifth : 2960' - 2975'

Gordon: 2884' - 2943

30 ft: 2839-2854

Big Injun: 2196-2251